We claim:

1. A method for supplying energy, said method comprising:

monitoring a computer's energy consumption;

supplying external AC to said computer during an off - peak energy - consumption period; using said external AC to charge a battery during said off - peak energy - consumption period; and

supplying energy from said battery to said computer during a peak energy - consumption period.

- 2. The method of Claim 1, wherein said computer is a server.
- 3. The method of Claim 1, wherein said computer is one of a plurality of computers in a cluster.
- 4. The method of Claim 3, wherein each of said plurality of computers has its own battery.
- 5. The method of Claim 1, wherein said computer is one of a plurality of computers mounted in a rack.
- 6. The method of Claim 5, wherein said plurality of computers share a battery mounted in said rack.
- 7. The method of Claim 1, further comprising: monitoring the price of said external AC; using said external AC to charge a battery when said price is less than a first price limit; and supplying energy from said battery to said computer when said price is greater than a second price limit.
- 8. The method of Claim 1, further comprising: monitoring the amount of energy stored in said battery; and

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using said external AC to charge said battery when said amount of energy is less than a predefined lower limit.

9. A method for energy management, said method comprising:

determining a value for an energy condition affecting at least one computer in a cluster;

updating said value continuously;

comparing said value with a predefined limit regarding said energy condition;

based on said determining, said updating, and said comparing, utilizing at least one energy mode

chosen from:

storing energy;

operating said at least one computer on stored energy;

operating said at least one computer on external energy; and

standing by.

10. The method of Claim 9, wherein said determining further comprises at least one of:

determining a time of day;

determining a price of energy;

determining a rate of energy consumption; and

determining an amount of stored energy.

11. The method of Claim 9, wherein:

said energy condition is a price for energy; and

said utilizing further comprises said operating on stored energy, when said price is greater than

said predefined limit.

12. The method of Claim 9, wherein:

said energy condition is a price for energy; and

said utilizing further comprises said storing energy, when said price is less than said predefined

limit.

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13. The method of Claim 9, wherein:

said energy condition is a price for energy; and

said utilizing further comprises said operating on external energy, when said price is less than said predefined limit.

said predefined mint.

14. The method of Claim 9, wherein:

said energy condition is a rate of energy consumption; and

said utilizing further comprises said operating on stored energy, when said rate is greater than

said predefined limit.

15. The method of Claim 9, wherein:

said energy condition is a rate of energy consumption; and

said utilizing further comprises said storing energy, when said rate is less than said predefined

limit.

16. The method of Claim 9, wherein:

said energy condition is a rate of energy consumption; and

said utilizing further comprises said operating on external energy, when said rate is less than said

predefined limit.

17. The method of Claim 9, wherein:

said energy condition is an amount of stored energy; and

said utilizing further comprises said storing energy, when said amount is less than said

predefined limit.

18. The method of Claim 9, further comprising:

performing said determining,

said updating, and

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said comparing,

for a plurality of energy conditions.

19. A system for energy management, said system comprising:

means for determining a value for an energy condition affecting at least one computer in a cluster;

means for updating said value continuously;

means for comparing said value with a predefined limit regarding said energy condition; and means, responsive to said means for determining, said means for updating, and said means for comparing, for utilizing at least one energy mode;

means for storing energy; and

means for operating said at least one computer on stored energy.

20. The system of Claim 19, wherein said means for determining further comprises at least one of:

means for determining a time of day;

means for determining a price of energy;

means for determining a rate of energy consumption; and

means for determining an amount of stored energy.

21. The system of Claim 19, wherein:

said means for determining further comprises means for determining a price for energy; and said means for operating on stored energy is employed when said price is greater than said predefined limit.

22. The system of Claim 19, wherein:

said means for determining further comprises means for determining a price for energy; and said means for storing energy is employed when said price is less than said predefined limit.

23. The system of Claim 19, wherein:

said means for determining further comprises means for determining a price for energy; and said utilizing further comprises means for operating on external energy, when said price is less than said predefined limit.

5 24. The system of Claim 19, wherein:

said means for determining further comprises means for determining a rate of energy consumption; and

said means for operating on stored energy is employed when said rate is greater than said predefined limit.

25. The system of Claim 19, wherein:

said means for determining further comprises means for determining a rate of energy consumption; and

said means for storing energy is employed when said rate is less than said predefined limit.

26. The system of Claim 19, wherein:

said means for determining further comprises means for determining a rate of energy consumption; and

said means for utilizing further comprises means for operating on external energy, when said rate is less than said predefined limit.

27. The system of Claim 19, wherein:

said means for determining further comprises means for determining an amount of stored energy; and

said means for storing energy is employed when said amount is less than said predefined limit.

28. The system of Claim 19, further wherein:

said means for determining, said means for updating, and said means for comparing,

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are operative for a plurality of energy conditions.

29. A computer-usable medium having computer-executable instructions for energy management, said computer-executable instructions comprising:

means for determining a value for an energy condition affecting at least one computer in a cluster;

means for updating said value continuously;

means for comparing said value with a predefined limit regarding said energy condition; and means, responsive to said means for determining, said means for updating, and said means for comparing, for utilizing at least one energy mode;

means for storing energy; and

means for operating said at least one computer on stored energy.

30. The computer-usable medium of Claim 29, wherein said means for determining further comprises at least one of:

means for determining a time of day;

means for determining a price of energy;

means for determining a rate of energy consumption; and

means for determining an amount of stored energy.

31. The computer-usable medium of Claim 29, wherein:

said means for determining further comprises means for determining a price for energy; and said means for operating on stored energy is employed when said price is greater than said predefined limit.

32. The computer-usable medium of Claim 29, wherein:

said means for determining further comprises means for determining a price for energy; and said means for storing energy is employed when said price is less than said predefined limit.

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33. The computer-usable medium of Claim 29, wherein: said means for determining further comprises means for determining a price for energy; and said utilizing further comprises means for operating on external energy, when said price is less than said predefined limit.

- 34. The computer-usable medium of Claim 29, wherein: said means for determining further comprises means for determining a rate of energy consumption; and said means for operating on stored energy is employed when said rate is greater than said predefined limit.
- 35. The computer-usable medium of Claim 29, wherein: said means for determining further comprises means for determining a rate of energy consumption; and said means for storing energy is employed when said rate is less than said predefined limit.
- 36. The computer-usable medium of Claim 29, wherein: said means for determining further comprises means for determining a rate of energy consumption; and said means for utilizing further comprises means for operating on external energy, when said rate is less than said predefined limit.
- 37. The computer-usable medium of Claim 29, wherein: said means for determining further comprises means for determining an amount of stored energy; and said means for storing energy is employed when said amount is less than said predefined limit.
- 38. The computer-usable medium of Claim 29, wherein: said means for determining,

said means for updating, and said means for comparing, are operative for a plurality of energy conditions.